

CLAIMS

Having thus described the invention, what is claimed is:

1. A method for producing a threaded lug projecting from a plate-shaped workpiece, at an angle relative to the principal plane of the workpiece, comprising
 - (a) cutting a workpiece to produce a generally U-shaped lug joined to the body of the workpiece along one end and having a threaded contour (5, 6) on at least one side of the lug (2) extending from the junction (3) with the body of the workpiece (4); and
 - (b) bending the lug from the plane of the body of the workpiece to form a threaded projection extending at an angle relative to the principal plane of the body of the workpiece.
2. The method of forming a threaded lug on a workpiece in accordance with Claim 1 wherein threaded contours (5, 6) are cut along both sides of the lug (2).
3. The method of forming a threaded lug on a workpiece in accordance with Claim 2 wherein the transverse cuts are produced in the workpiece at a distance from each other and the threaded contours (5, 6) on the two sides are mutually offset in the longitudinal direction so as to generate a pitch.

4. The method of forming a threaded lug on a workpiece in accordance with Claim 1 wherein least one cut is produced in the principal plane of the workpiece along the course of a threaded contour (5, 6) by a punch press.

5. The method of forming a threaded lug on a workpiece in accordance with Claim 1 wherein at least one cut is produced in the principal plane of the workpiece along the course of a threaded contour (5, 6) by a thermal cutting process.

6. The method of forming a threaded lug on a workpiece in accordance with Claim 5 wherein said thermal cutting process is cutting with a laser beam.

7. The method of forming a threaded lug on a workpiece in accordance with Claim 1 wherein the bending step is effected in a bending press.

8. A machining installation for producing a threaded projection extending at an angle relative to the principal plane a plate-like workpiece including

(a) a cutting device for the relief cutting of a generally U-shaped lug from the workpiece,

(b) a thread cutting device for forming a threaded contour along at least one side of the lug; and

(c) a bending device for bending the lug from the plane of the body of the workpiece.

9. The machining installation in accordance with Claim 8, wherein said thread cutting device can produce two parallel cuts in the principal plane of the workpiece at a distance from each other and along the course of a threaded contour (5, 6).

10. The machining installation in accordance with Claim 8 wherein the thread cutting device produces parallel cuts provided in the workpiece at a distance from each other along the course of a threaded contour (5, 6) and the threaded contours (5, 6) on the two sides of the lug are offset in the longitudinal direction so as to generate a pitch.

11. The machining installation in accordance with Claim 8 wherein said thread cutting device is a punch press.

12. The machining installation in accordance with Claim 8 wherein the thread cutting device is a thermal cutting device.

13. The machining installation in accordance with Claim 12 wherein said thermal cutting device is a laser cutting device.

14. The machining installation in accordance with Claim 8 wherein said bending device is a bending press.

15. The machining installation in accordance with Claim 8 wherein the cutting device for the cutting of the lugs (2) also serves as the thread cutting device and that, by means of this cutting device, the workpiece lug (2) can be relief cut in the principal plane of the workpiece.

16. The machining installation in accordance with Claim 8 in that the machining installation includes a cutting station, a bending station, and a workpiece coordinate guide system, and wherein the coordinate guide system transports the workpiece processed in the cutting station to the bending station.